

**Fig. 1**

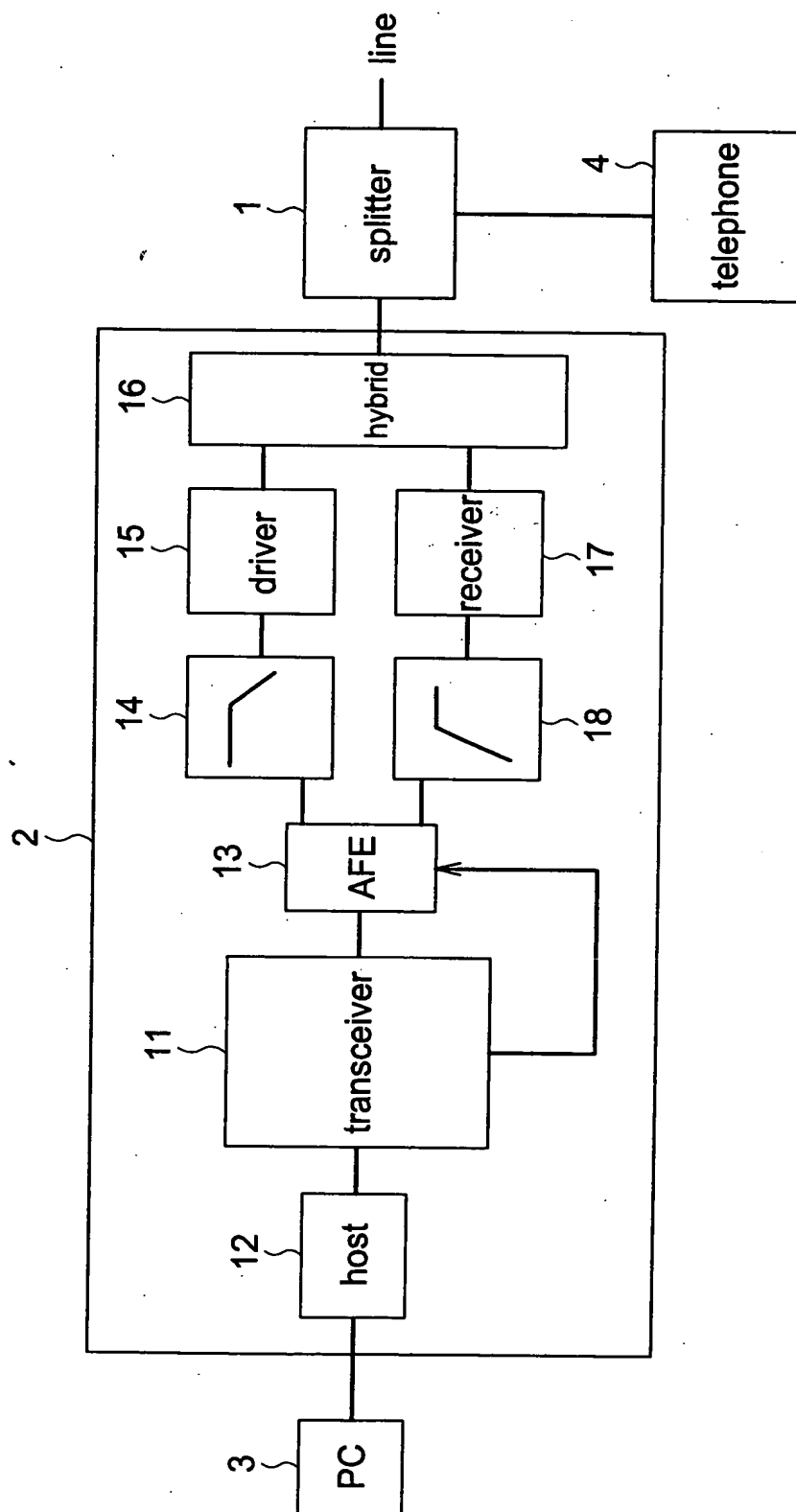


Fig.2

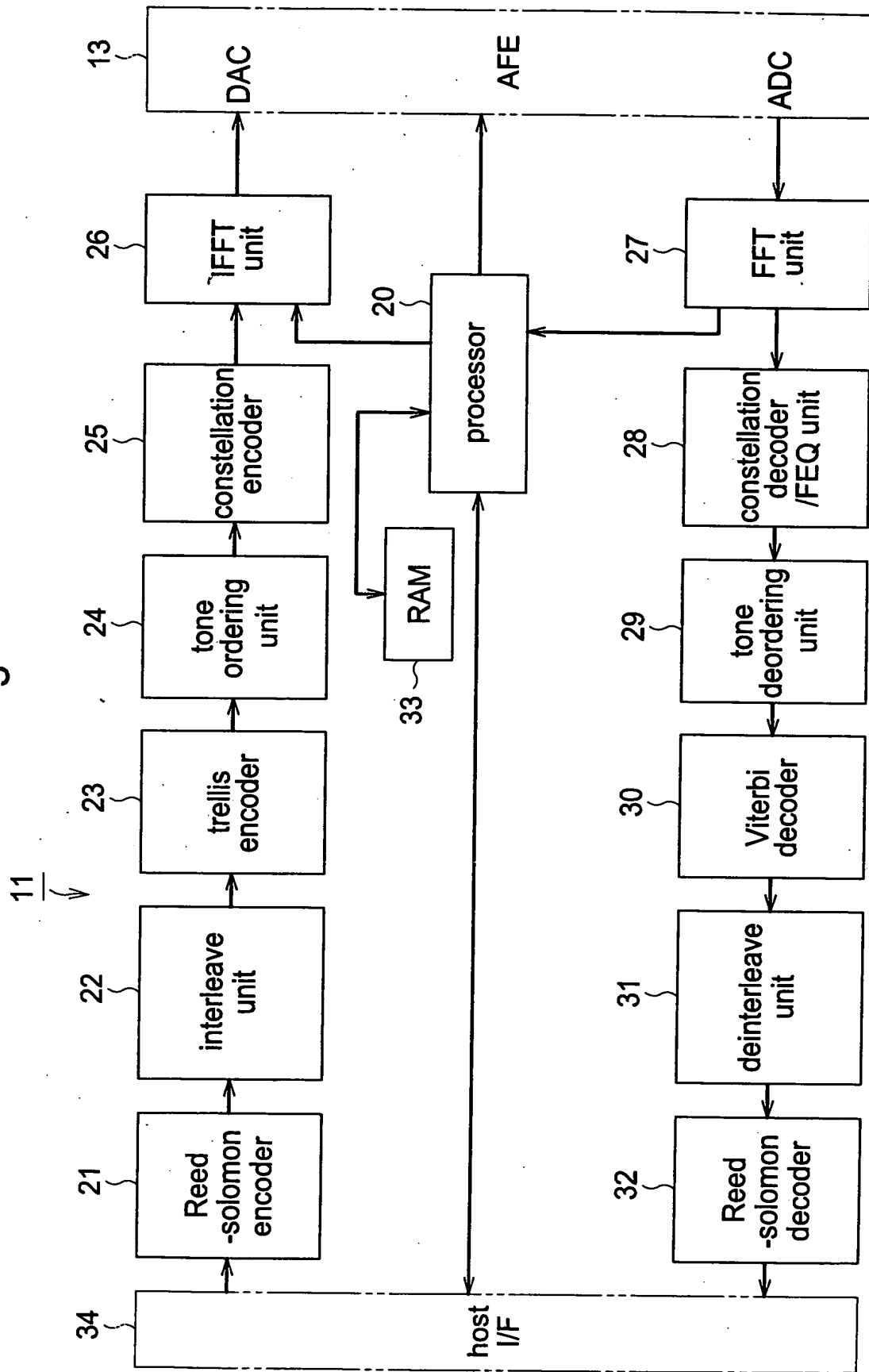


Fig.3

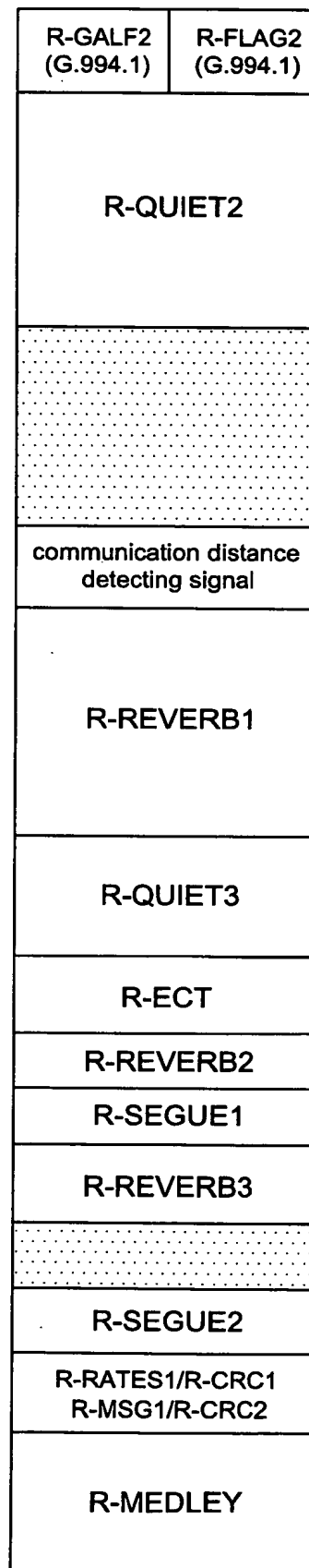
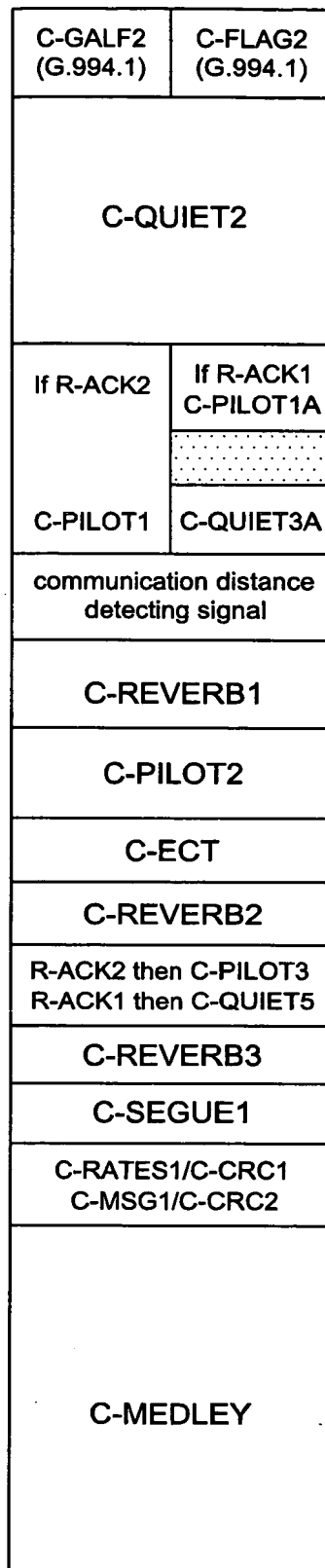


Fig.4a

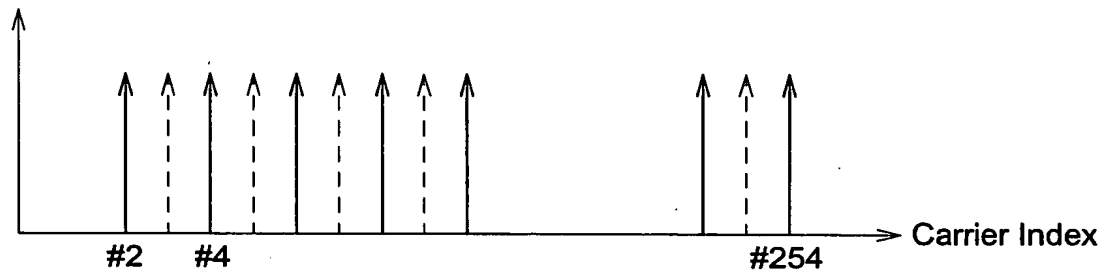


Fig.4b

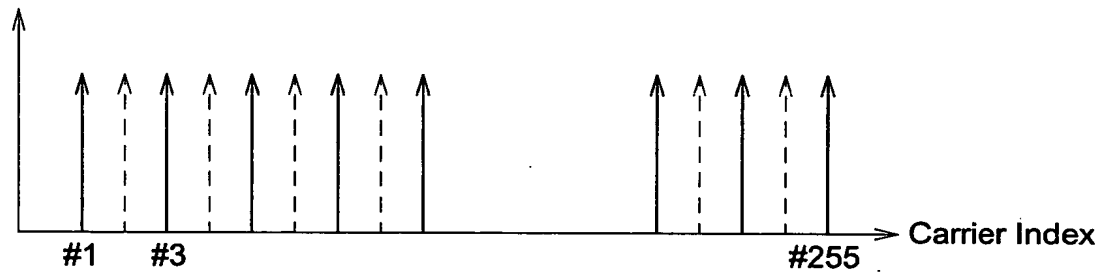


Fig.5a

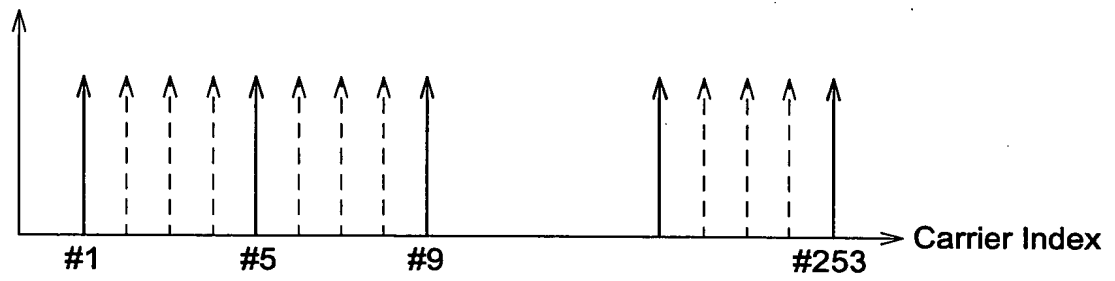


Fig.5b

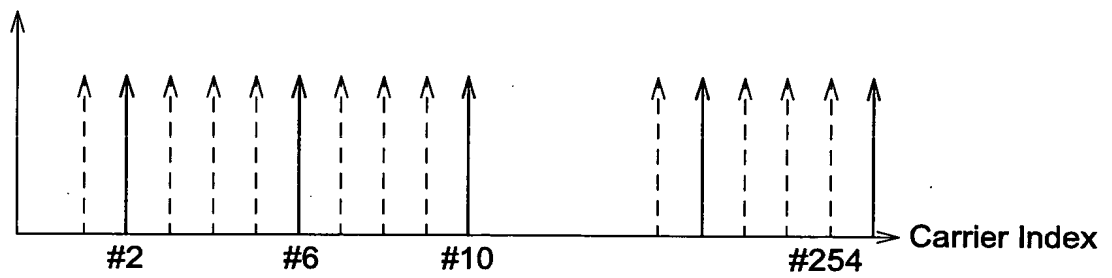


Fig.6

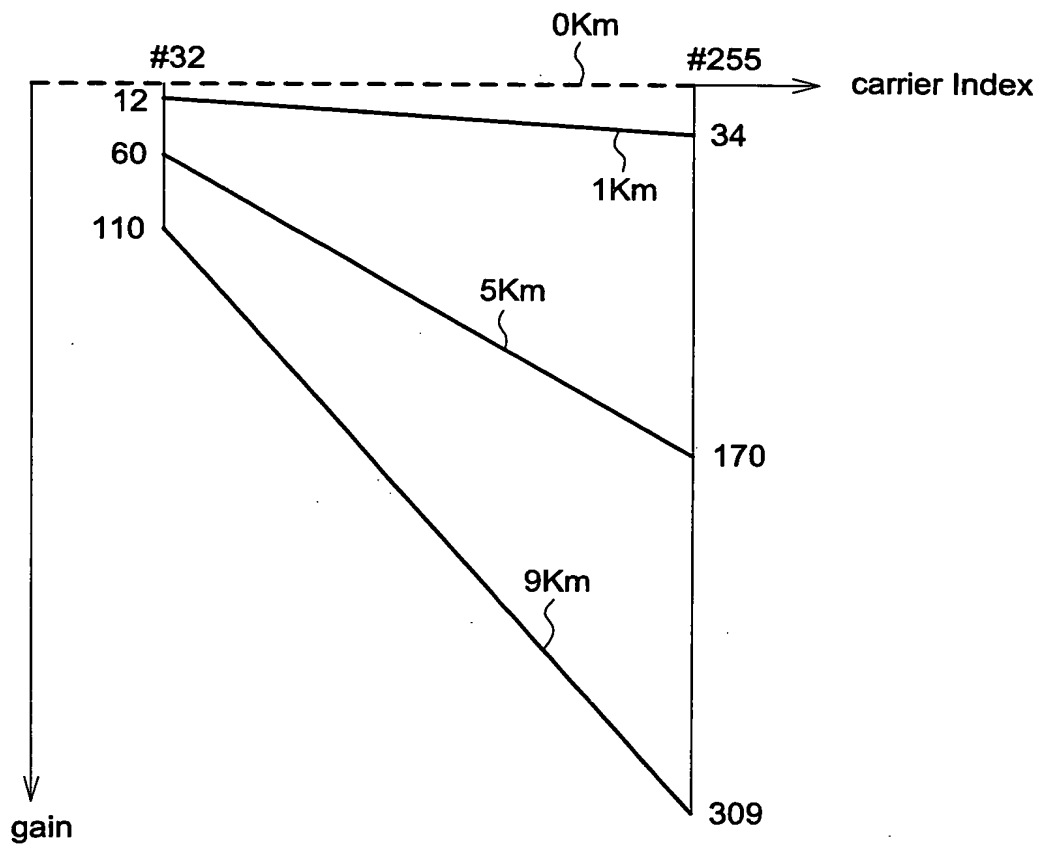


Fig.7

distance	Carrier Index N (frequency=4.3125KHz × N)						
	9	17	25	32	64	128	255
1Km	-8.89dB	-10.3dB	-11.4dB	-12.2dB	-16.0dB	-22.9dB	-34.3dB
5Km	-44.5dB	-51.6dB	-56.8dB	-61.1dB	-80.2dB	-114.6dB	-171.4dB
9Km	-80.0dB	-92.9dB	-102.3dB	-110.1dB	-144.4dB	-206.3dB	-308.6dB

Fig.8

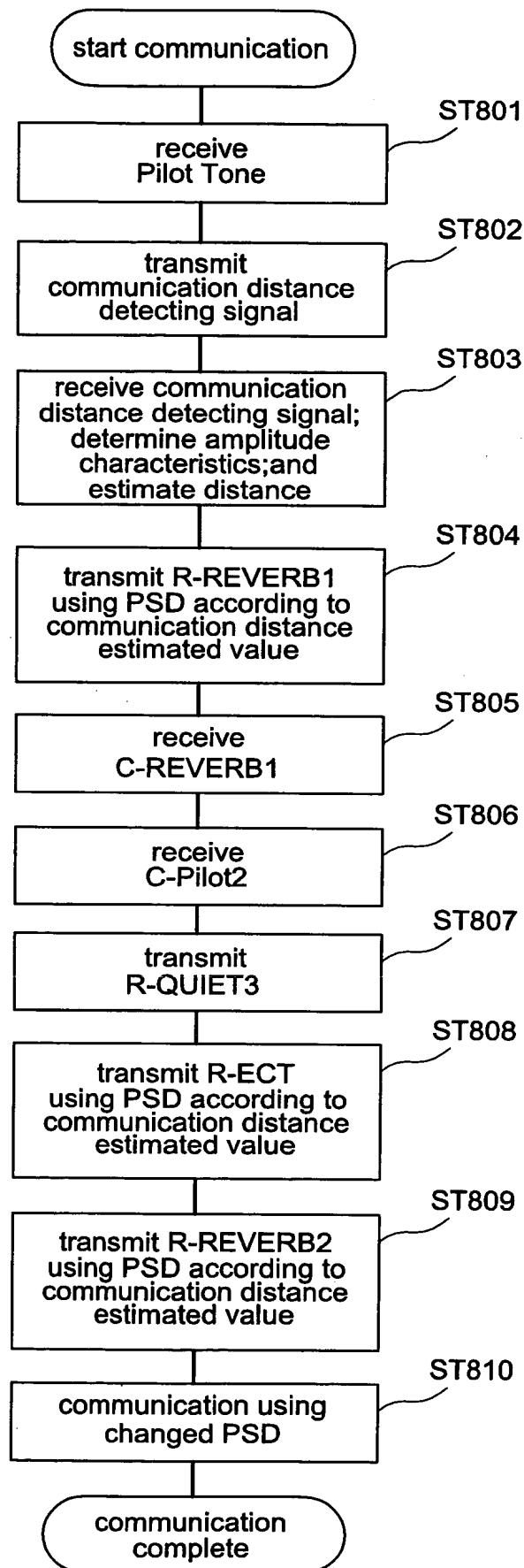




Fig.9

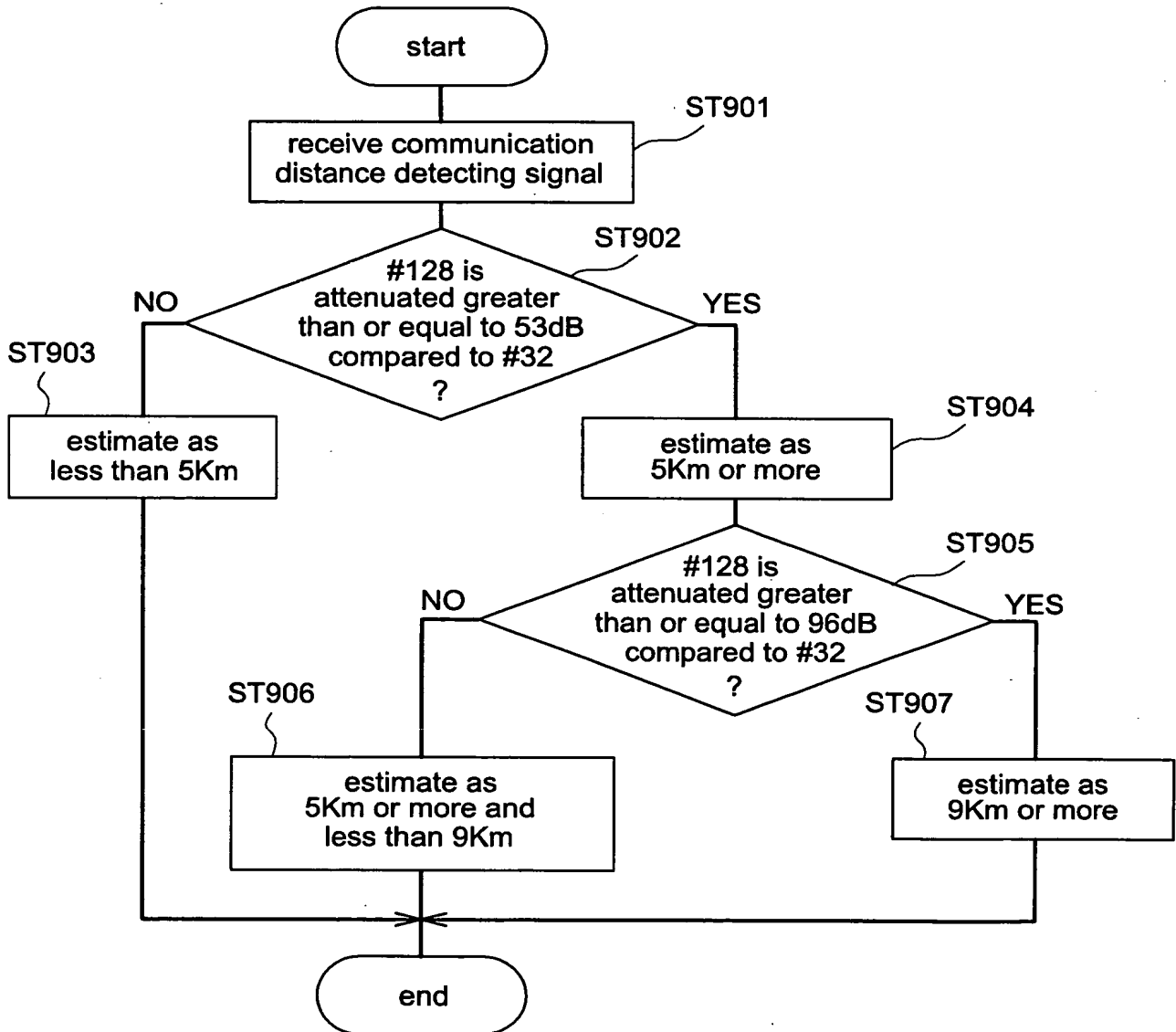


Fig.10

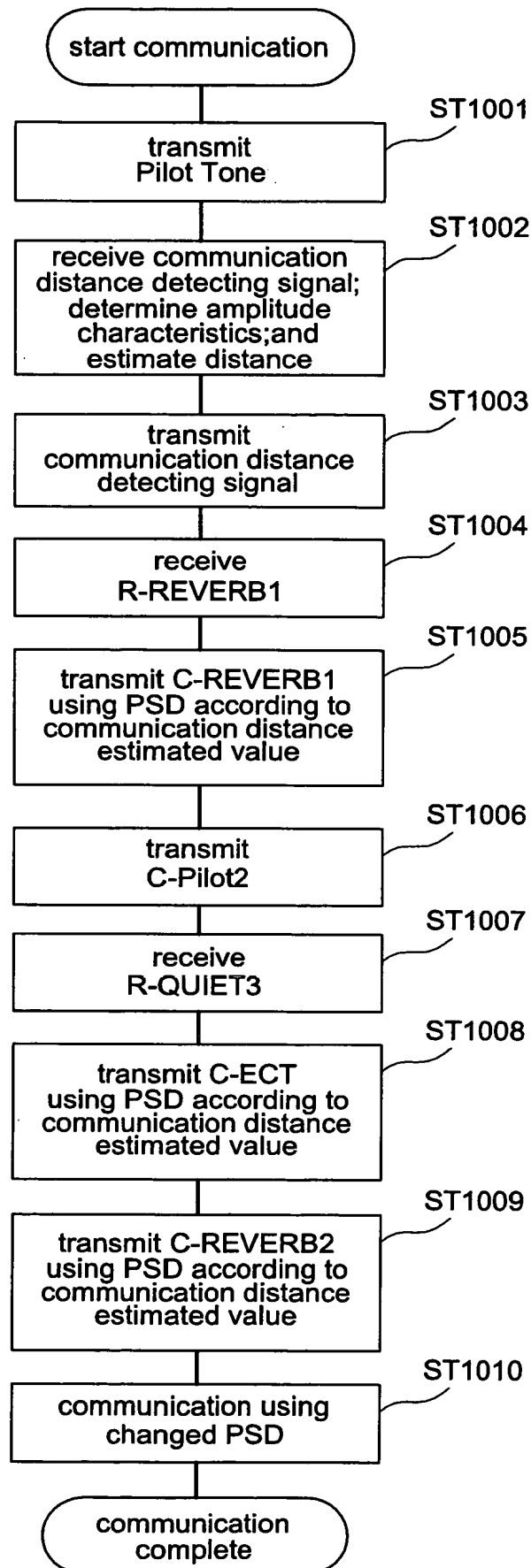


Fig.11

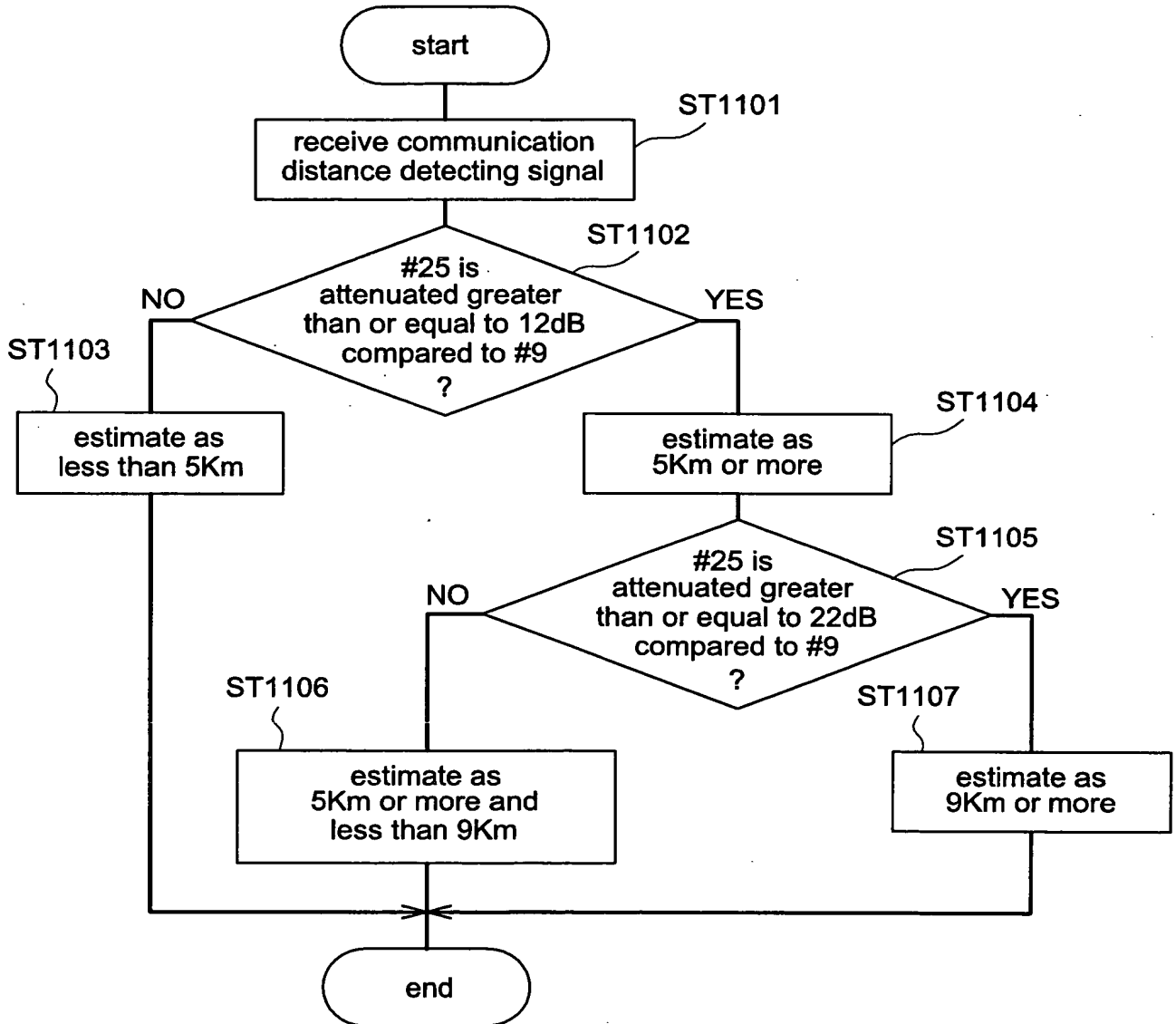


Fig.12

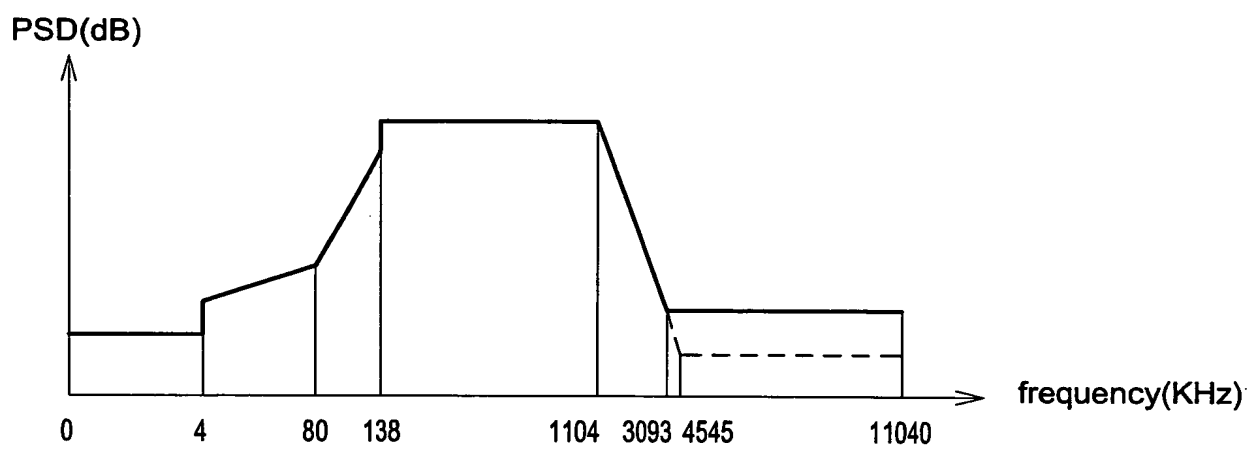


Fig.13

